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FIG. 1

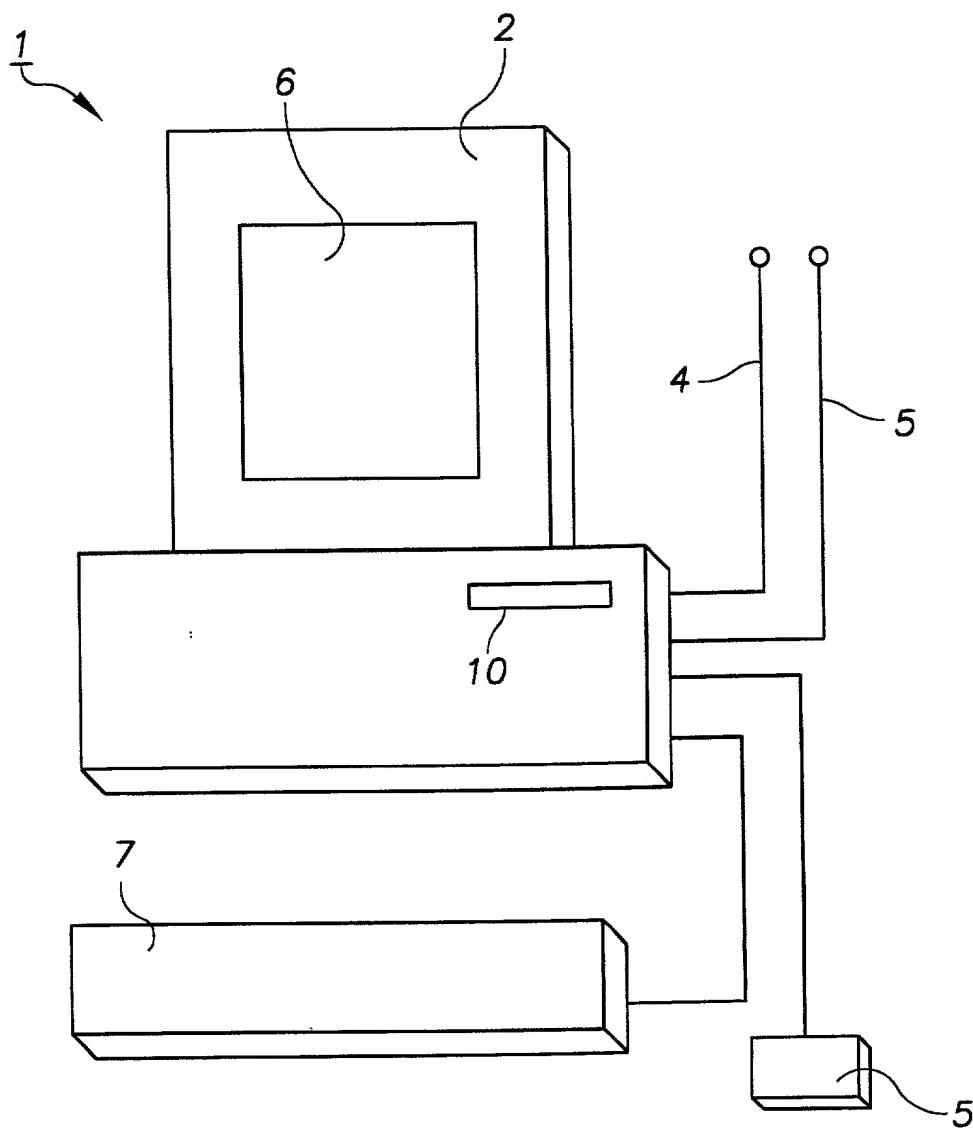
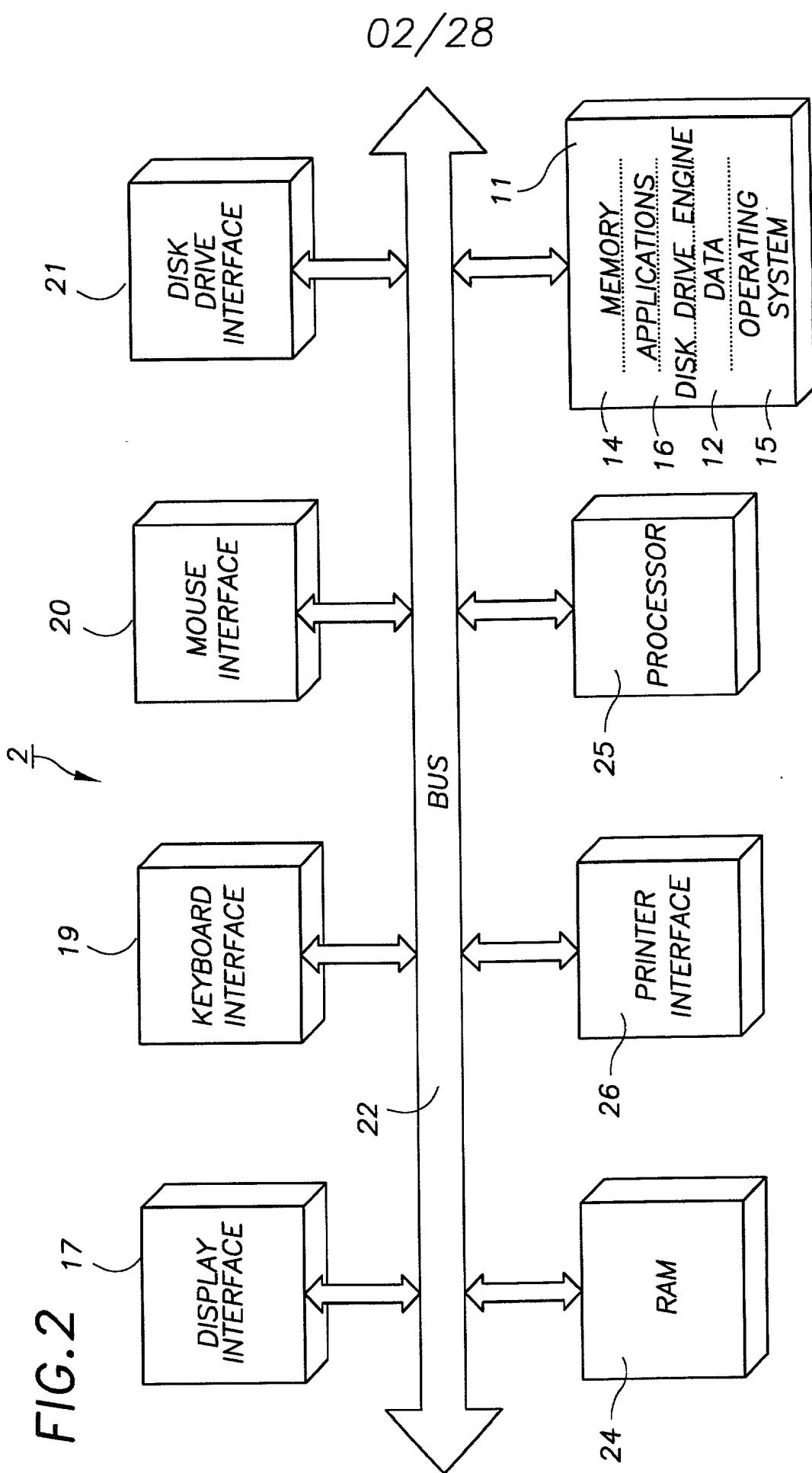
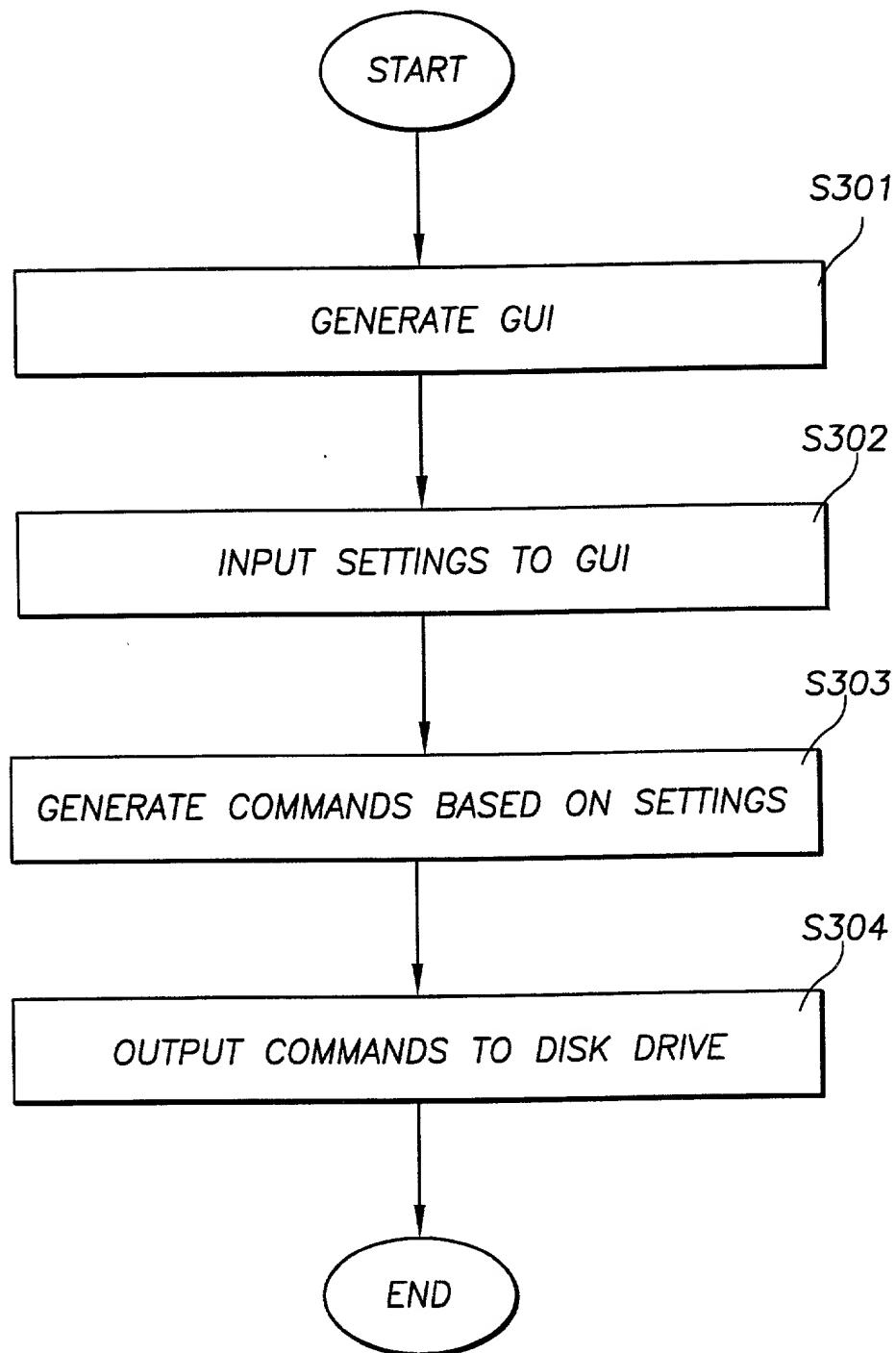


FIG. 2



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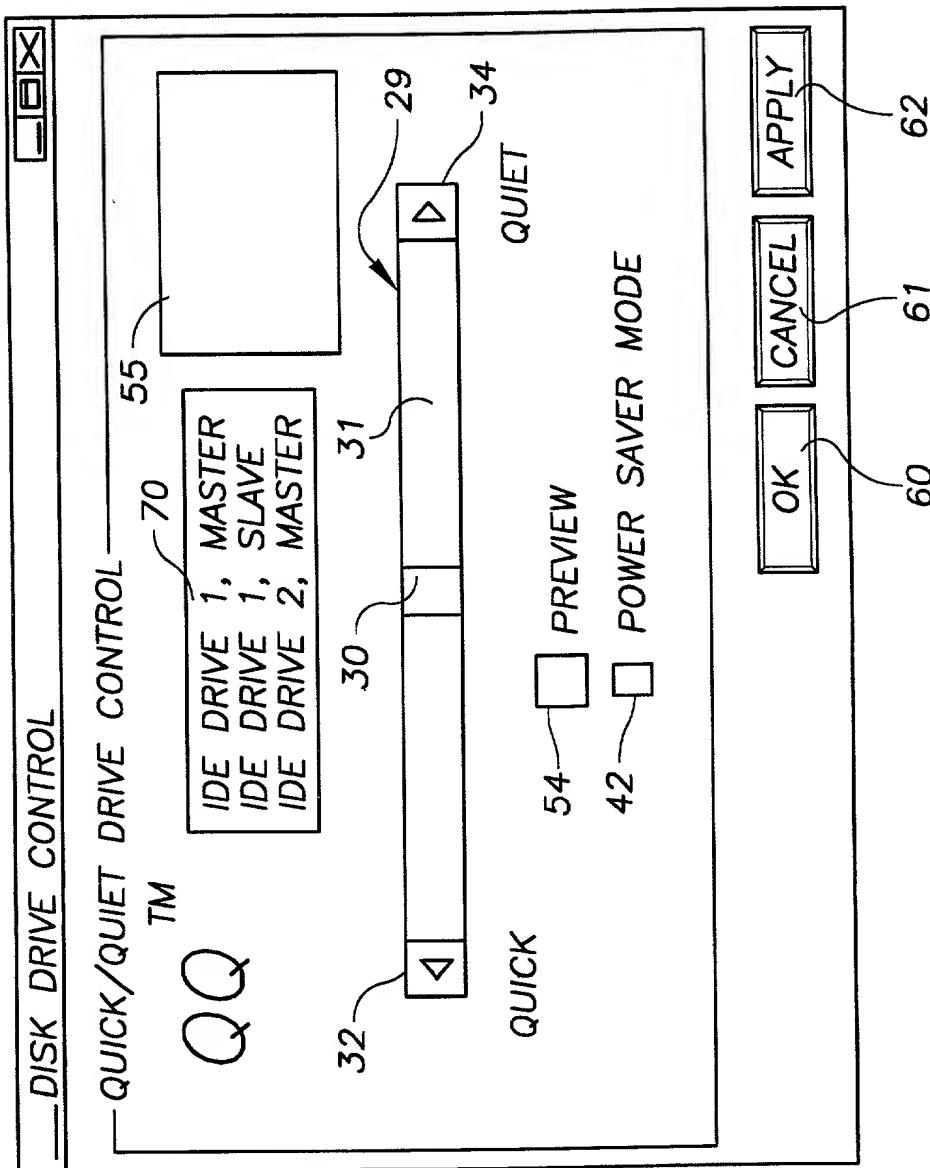
FIG.3



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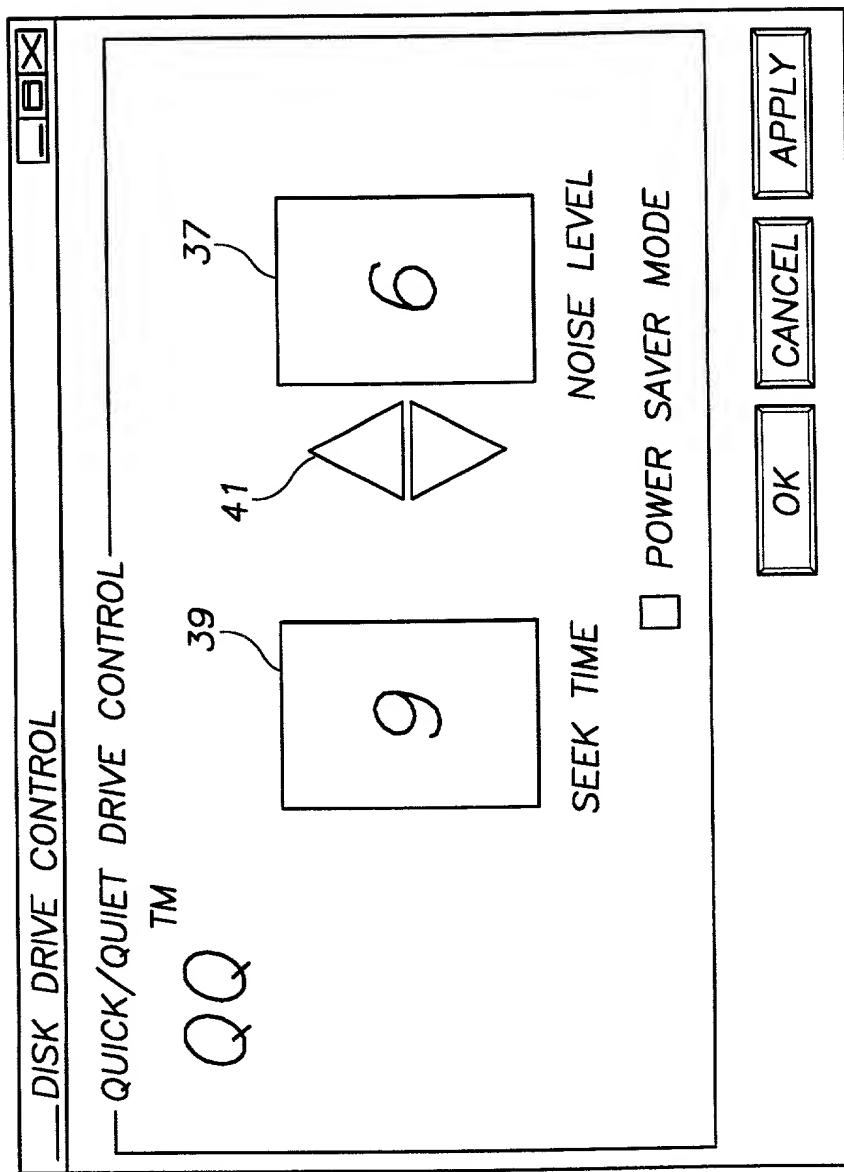
27

FIG. 4



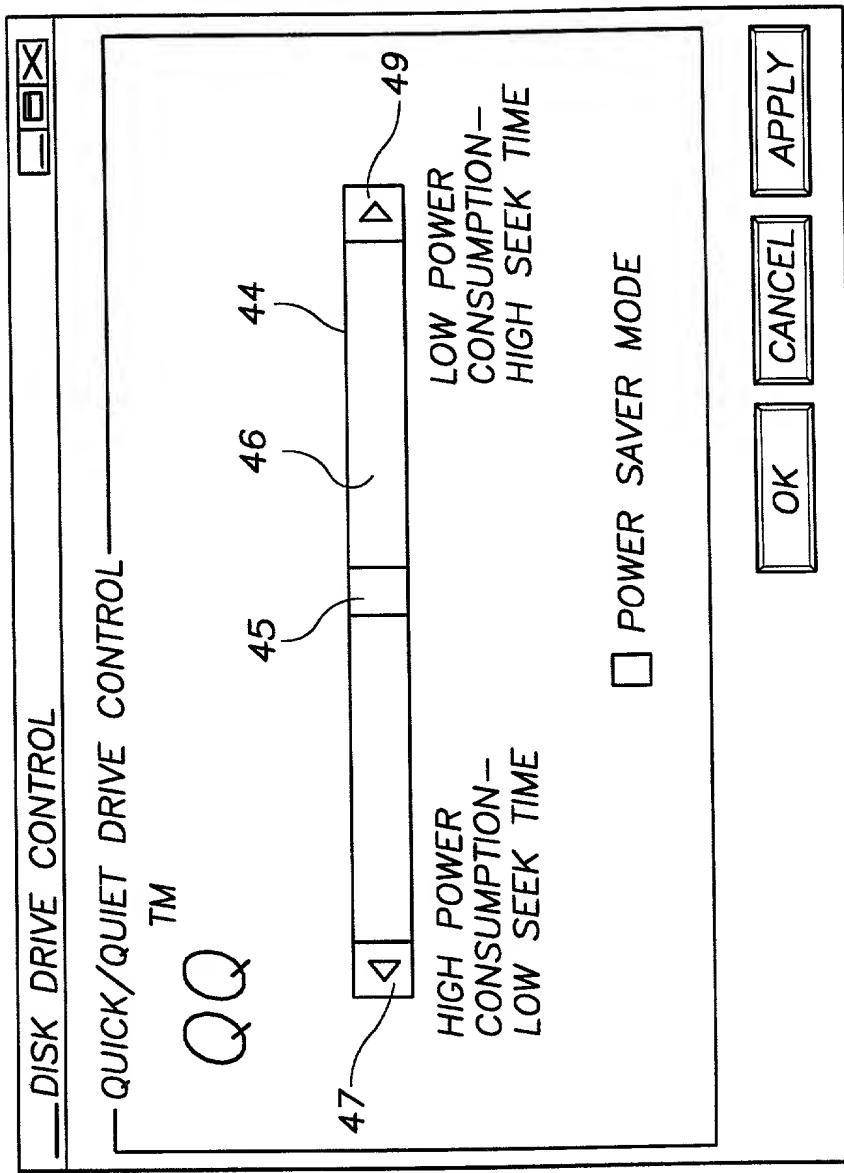
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FIG. 5



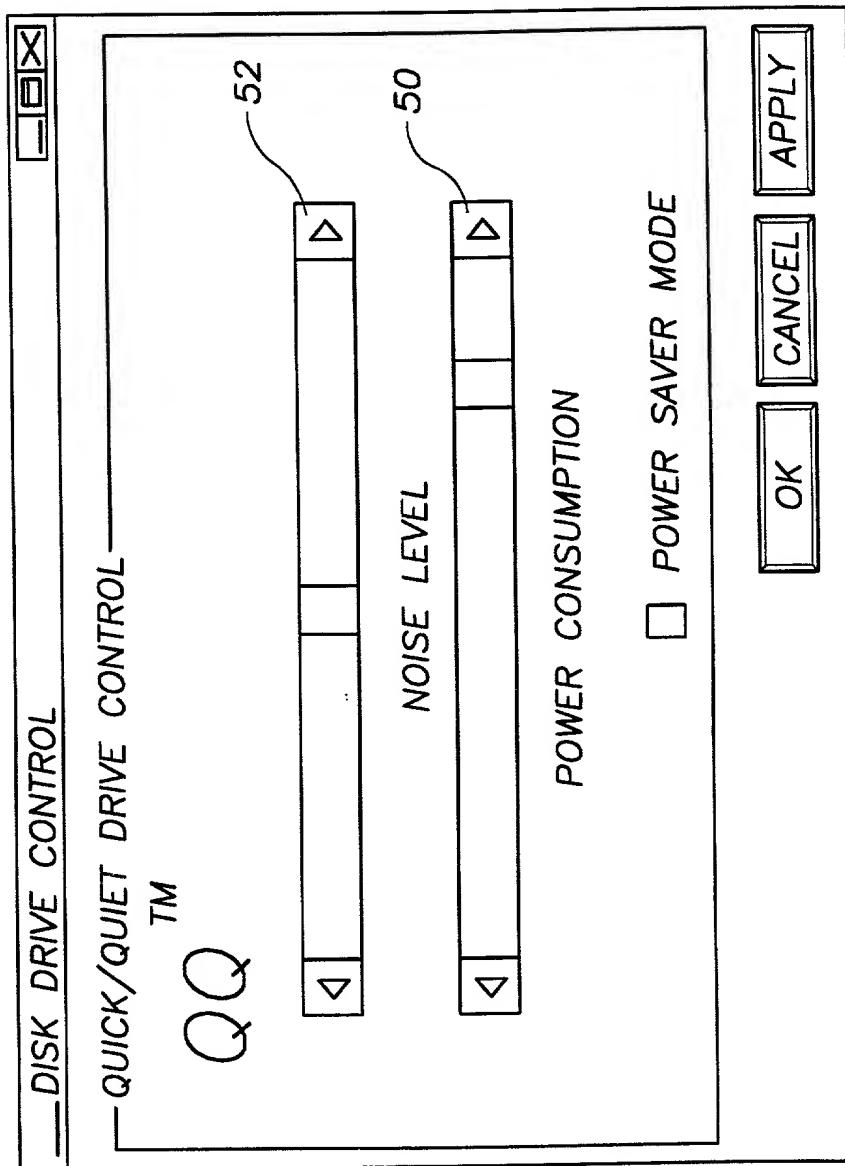
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FIG. 6



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FIG.7



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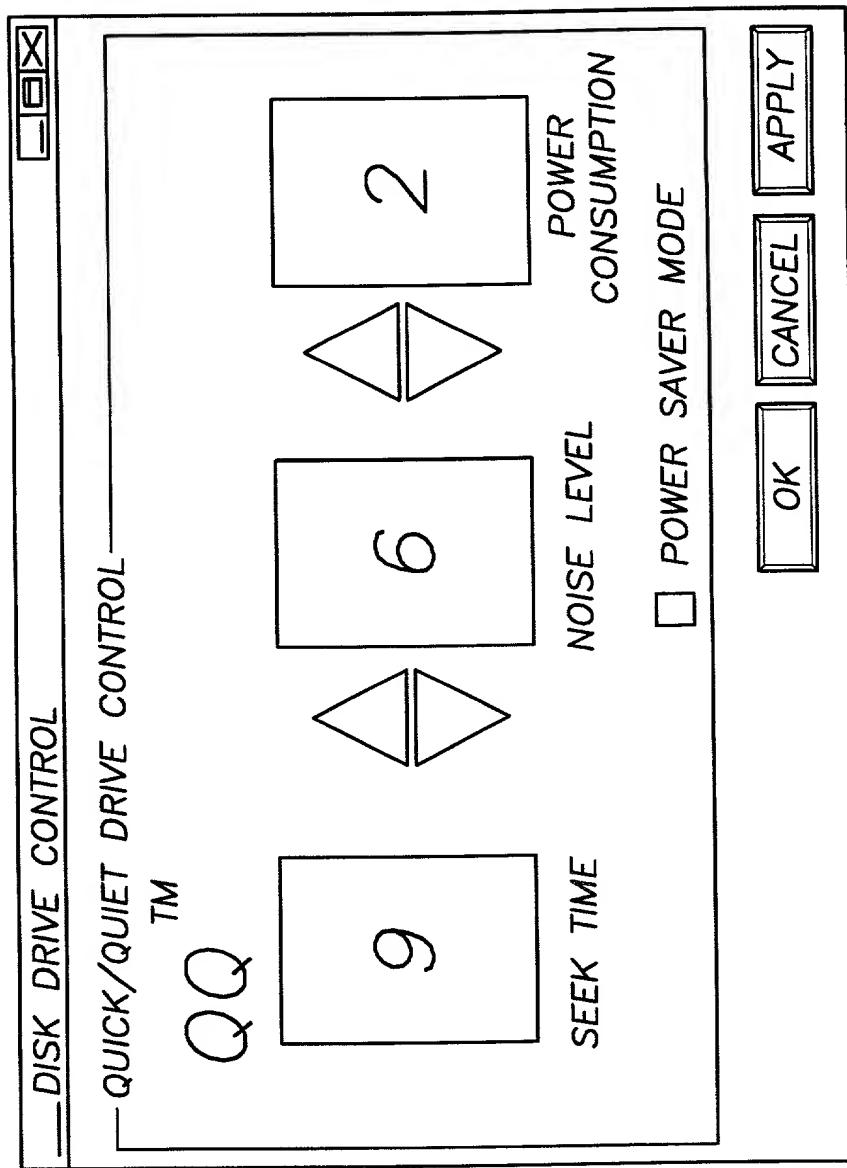
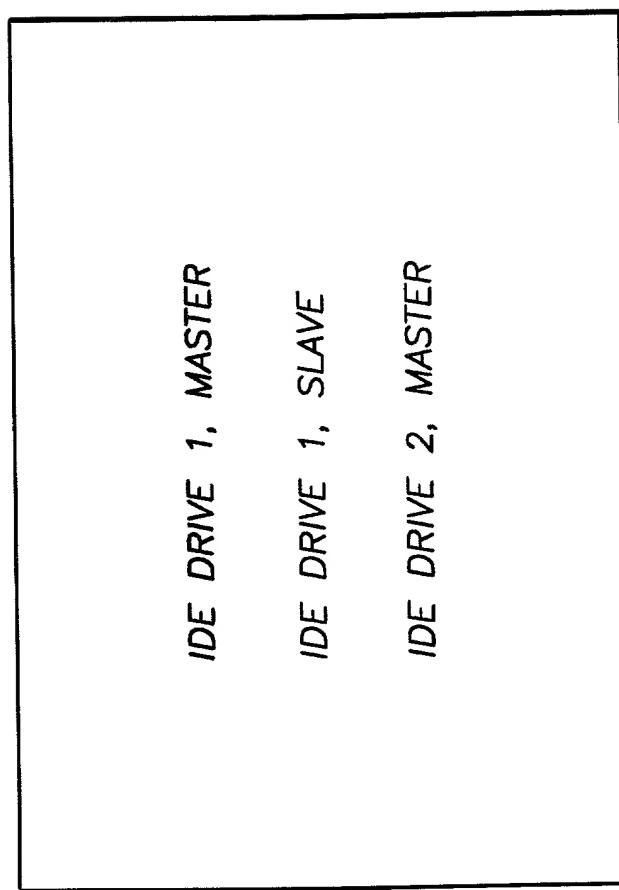


FIG. 8

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IDE DRIVE 1, MASTER

IDE DRIVE 1, SLAVE

IDE DRIVE 2, MASTER

FIG.9

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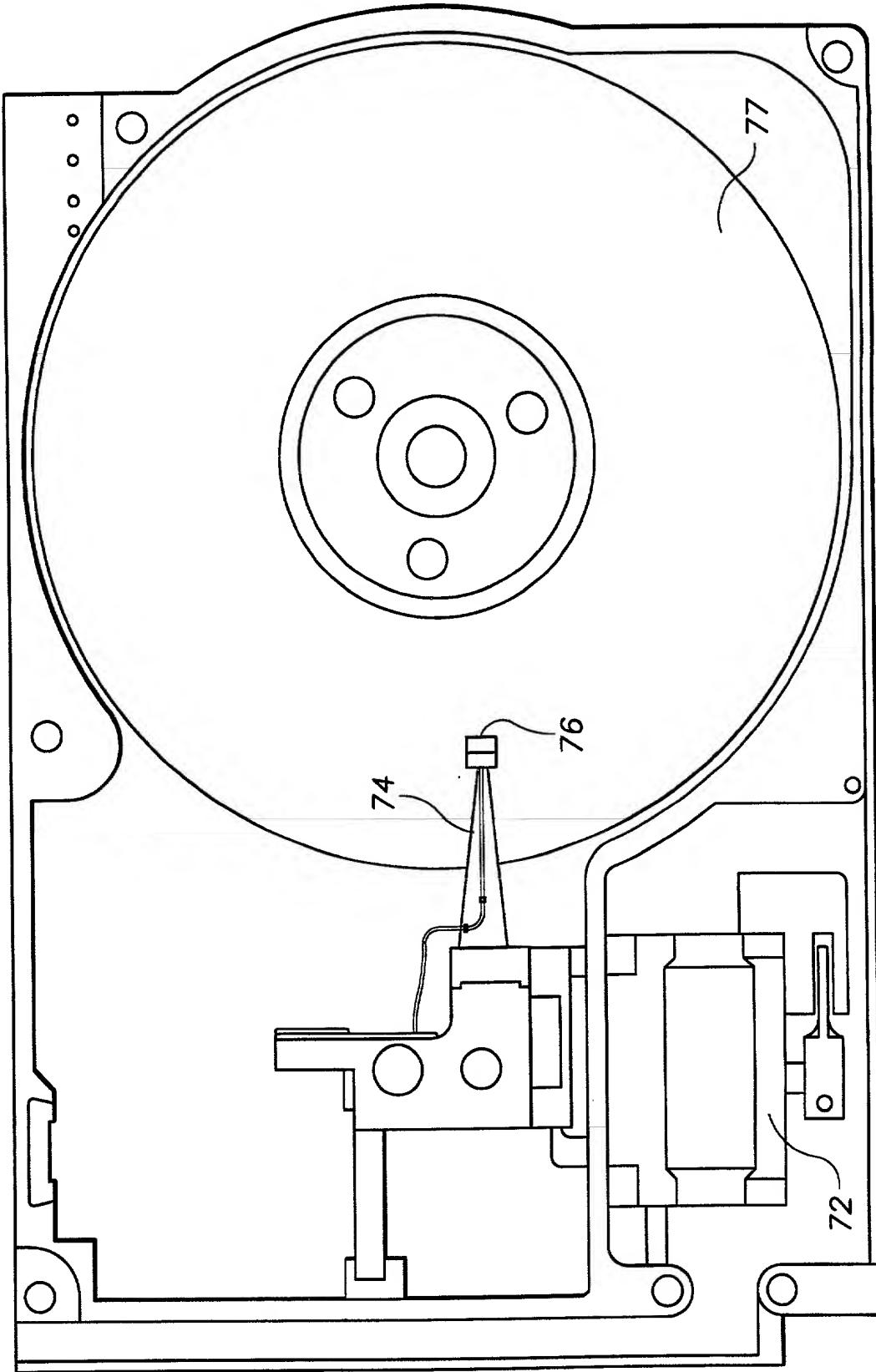


FIG. 10A

10
↗

FIG.10B

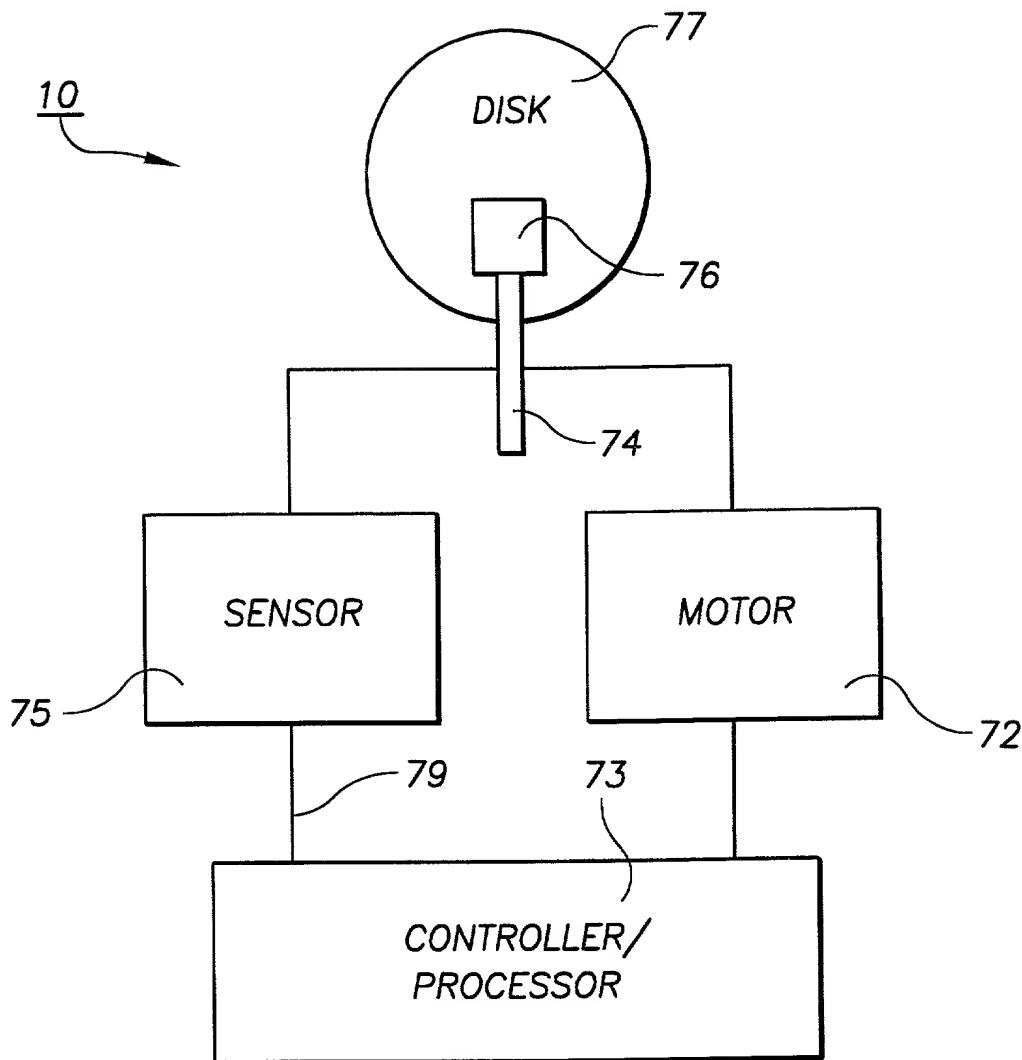


FIG. 11

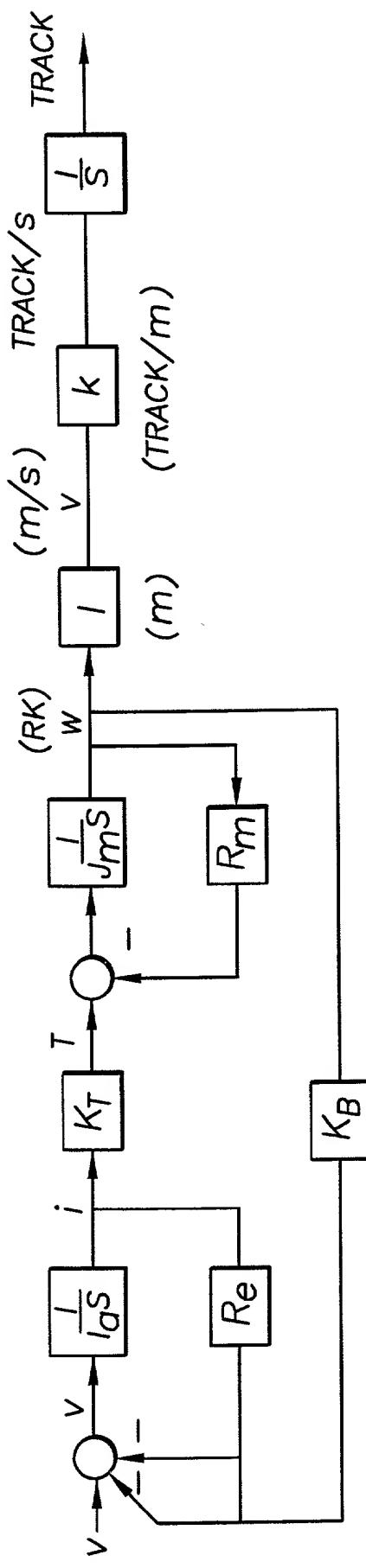


FIG. 12

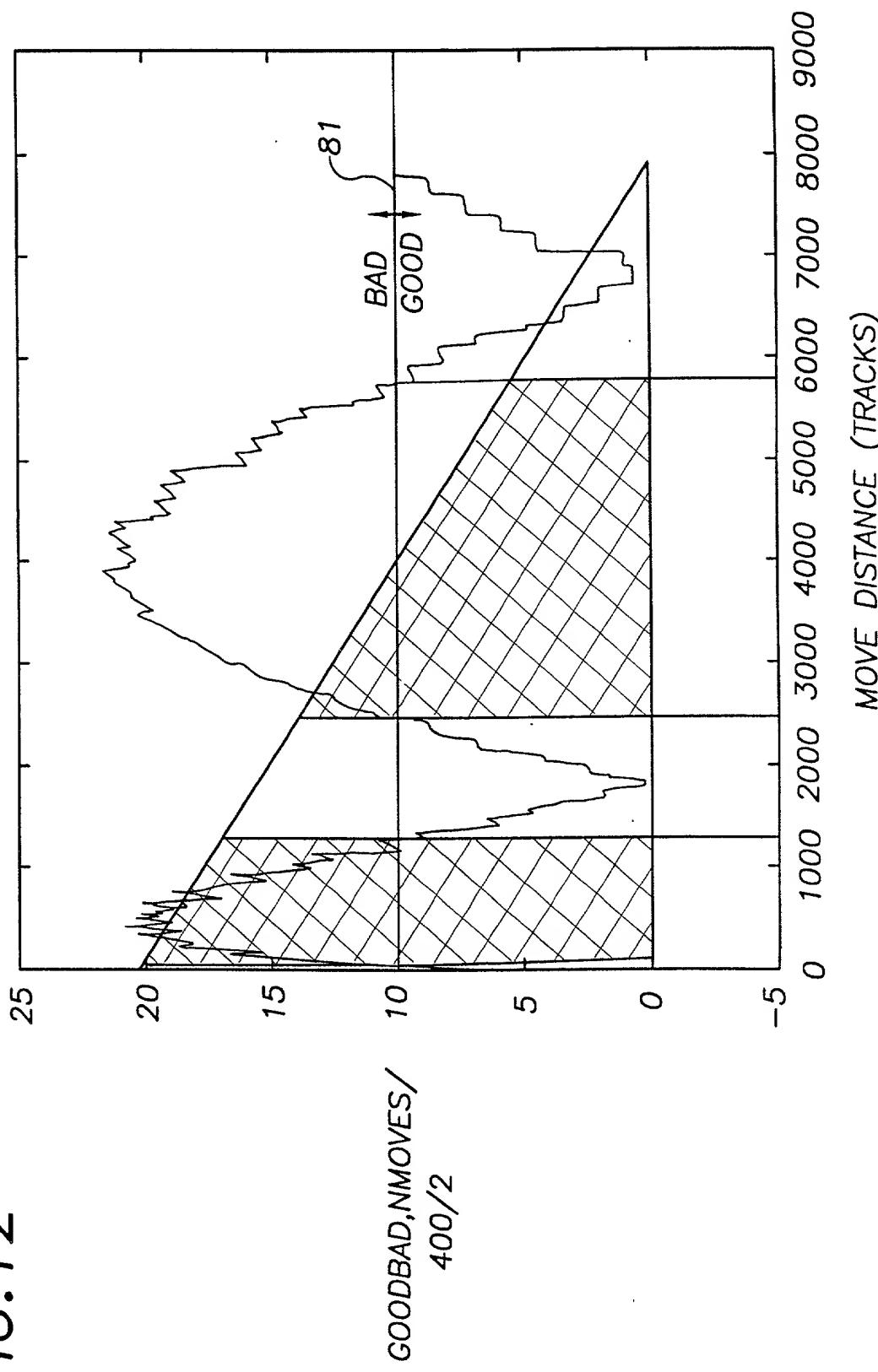


FIG.13

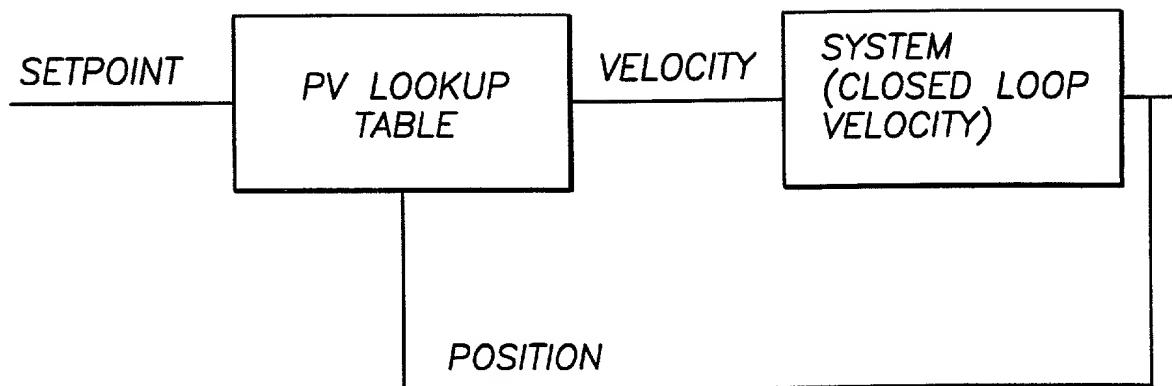
PRIOR ART

FIG.14

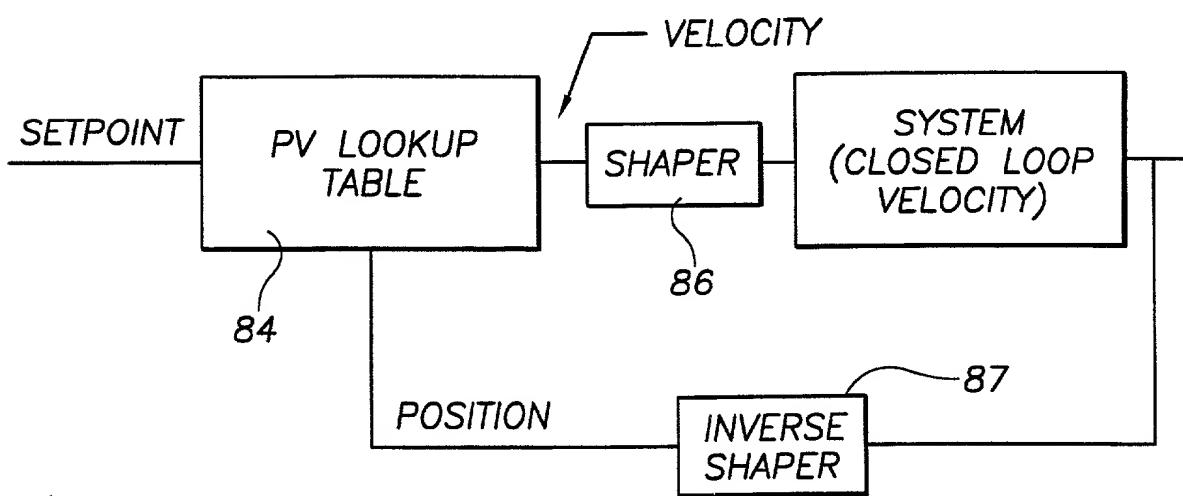


FIG.15

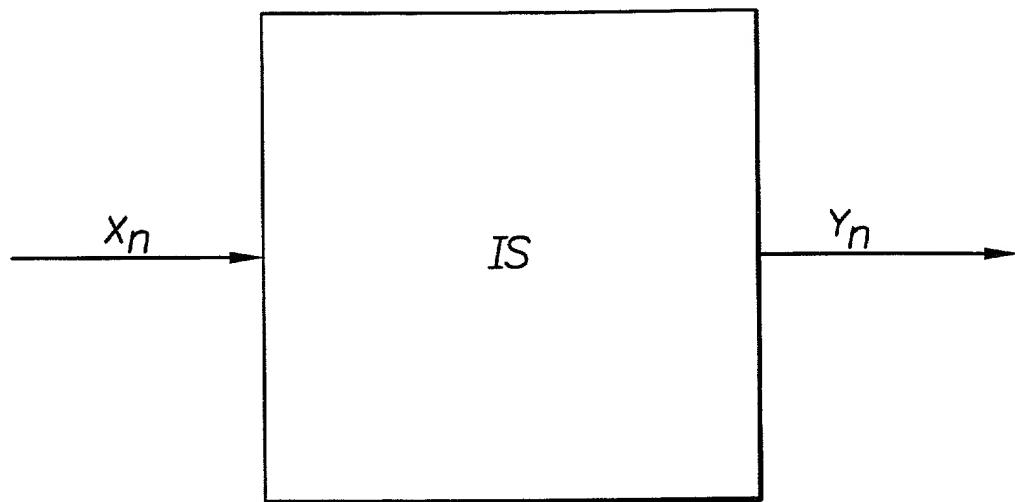


FIG.16

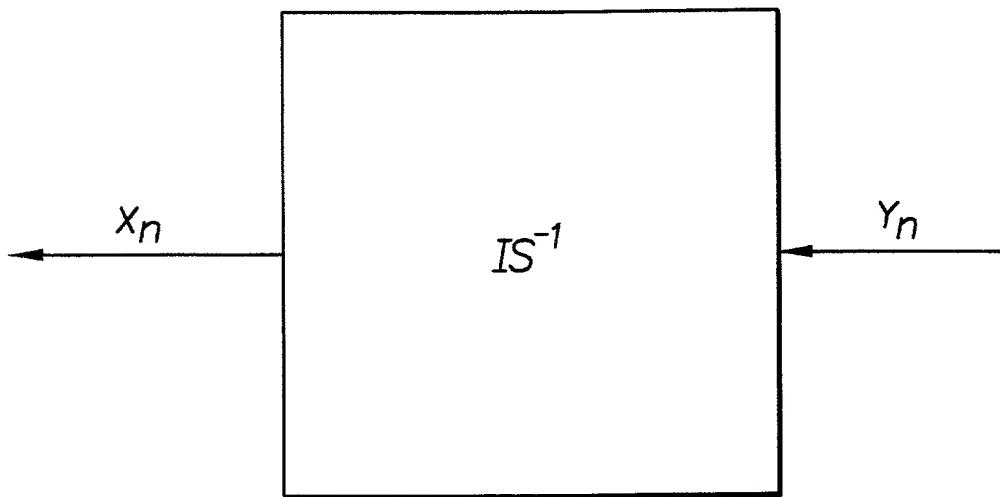


FIG.17

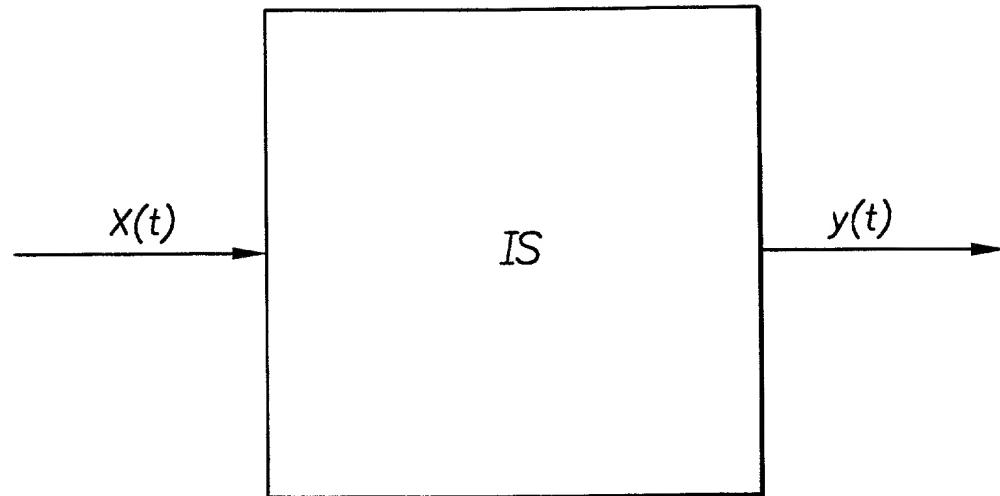


FIG18

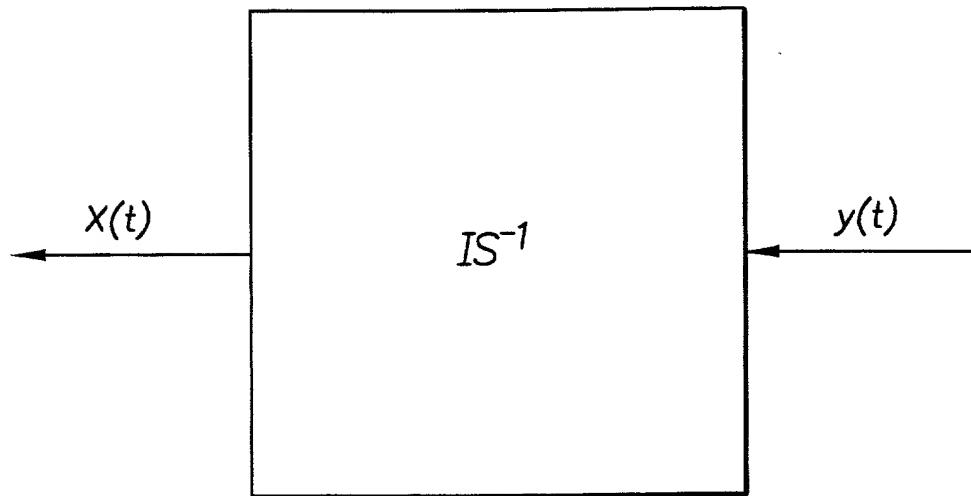


FIG.19

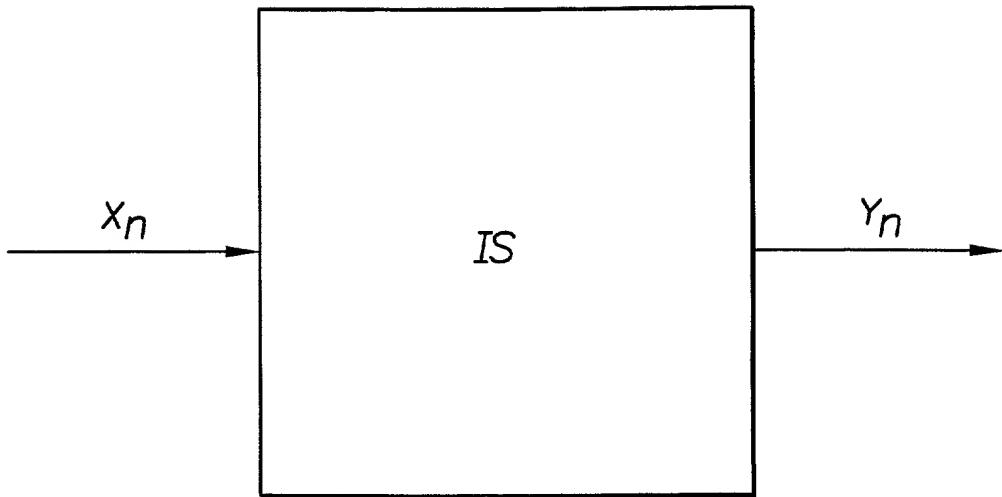


FIG20

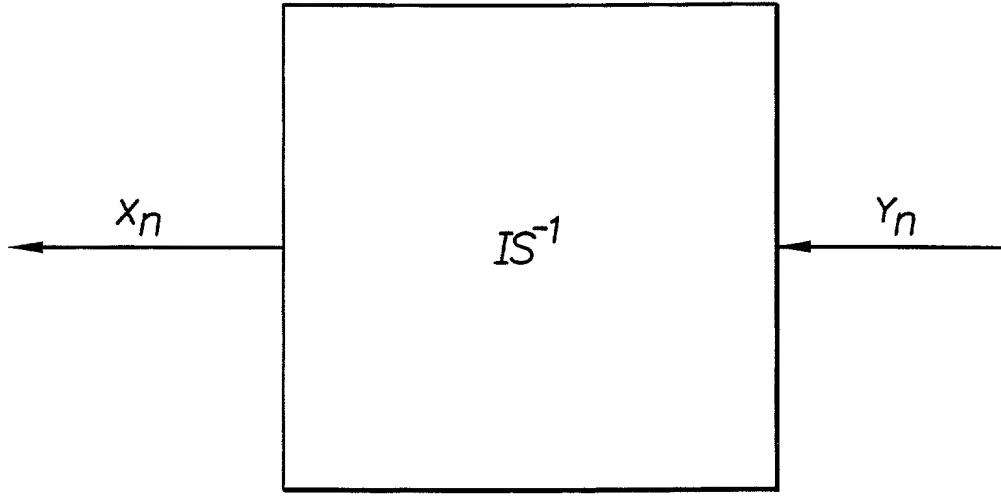
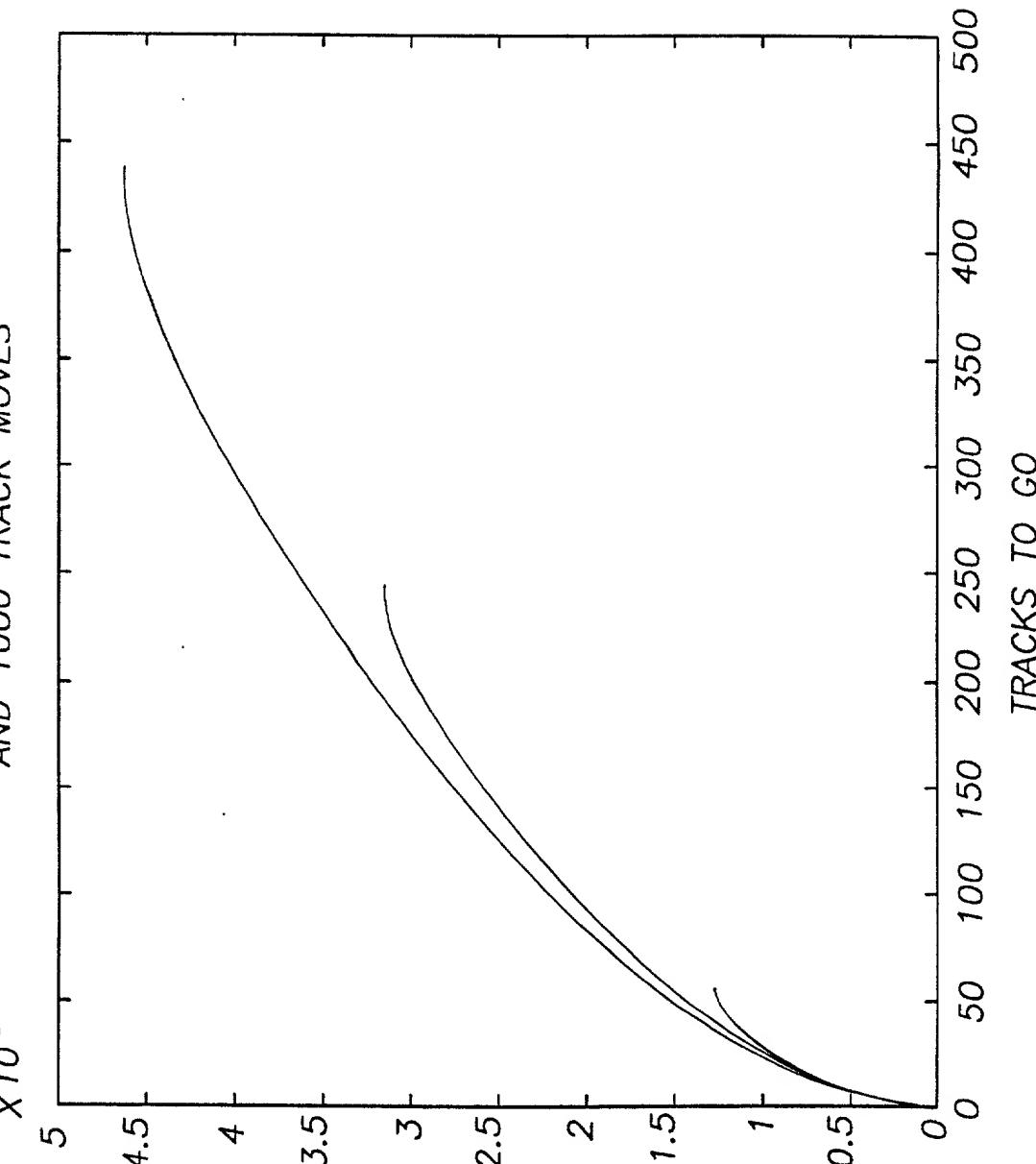


FIG. 21

PV CURVES FOR 100, 500,
AND 1000 TRACK MOVES

VELOCITY COMMAND
(TRACKS/SEC)



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FIG. 22

NORMALIZED PV CURVES FOR 100,
500, 1000, 3000 TRACK MOVES

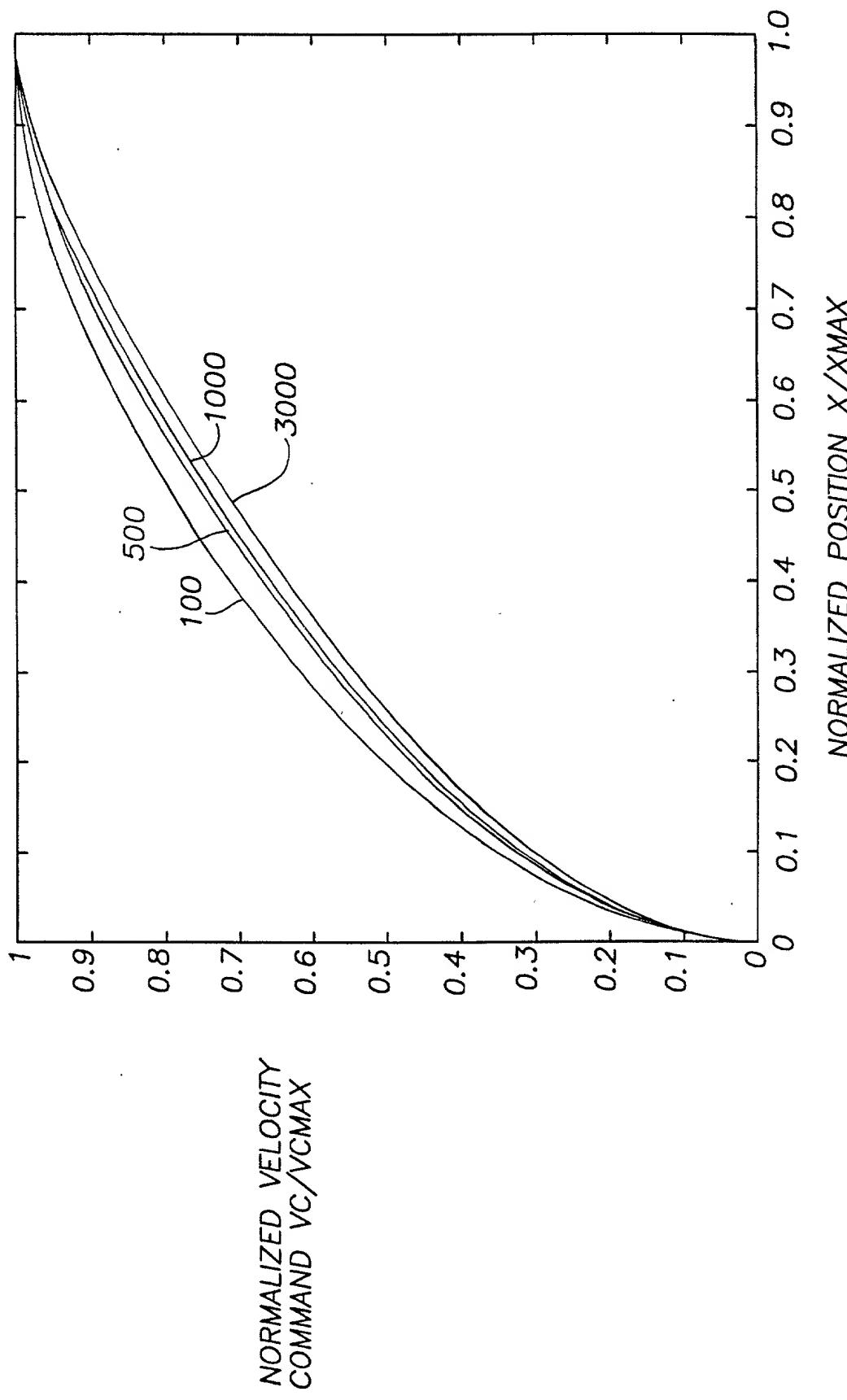


FIG. 23A

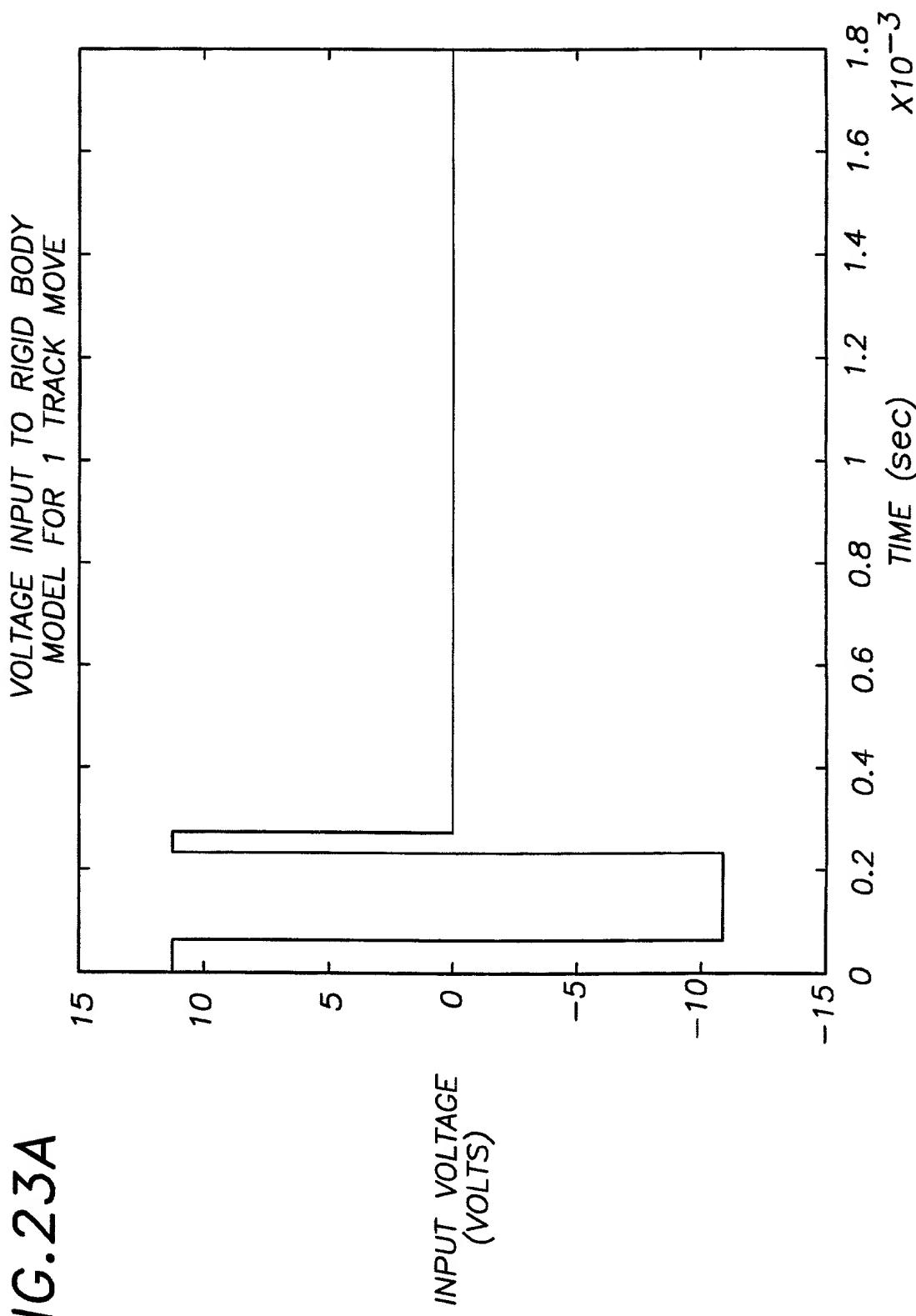


FIG. 23B

VOLTAGE INPUT TO RIGID BODY
MODEL FOR 3000 TRACK MOVE

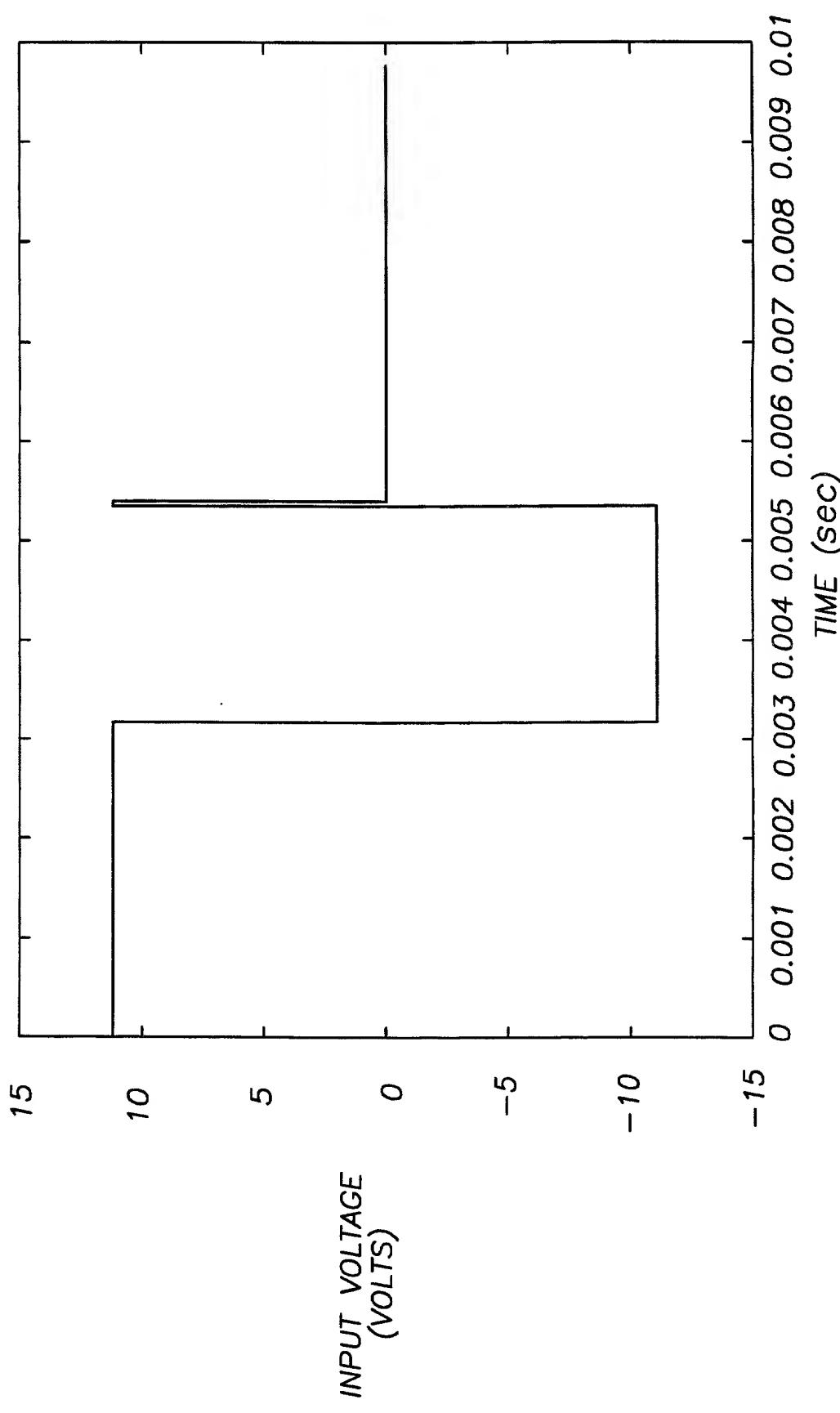


FIG.24

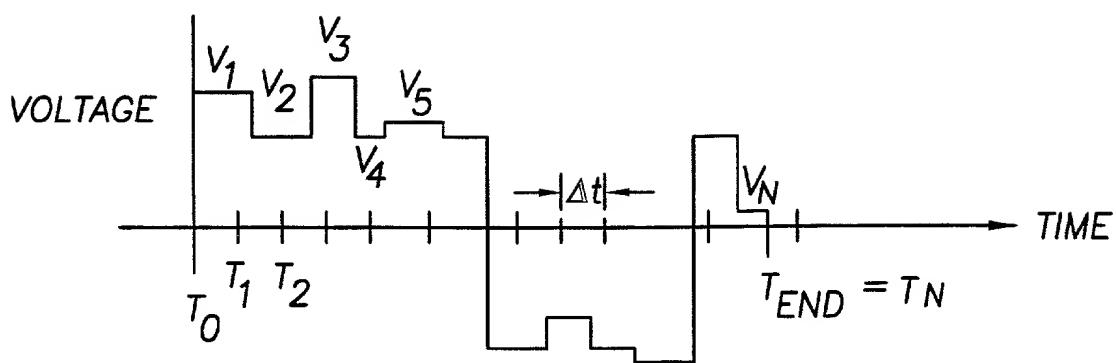


FIG.25

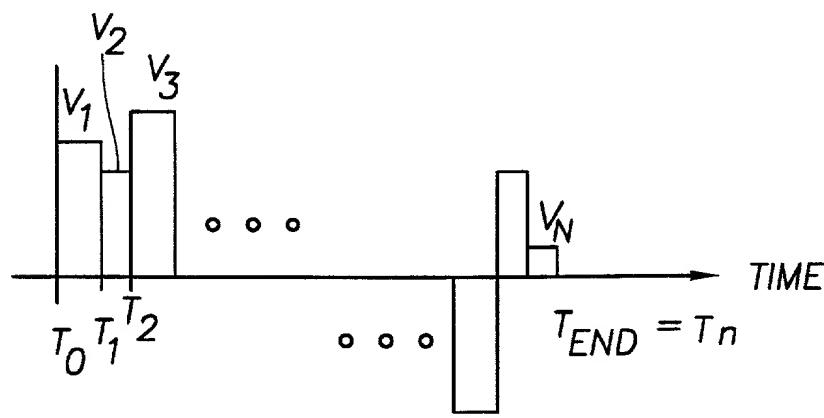


FIG.26

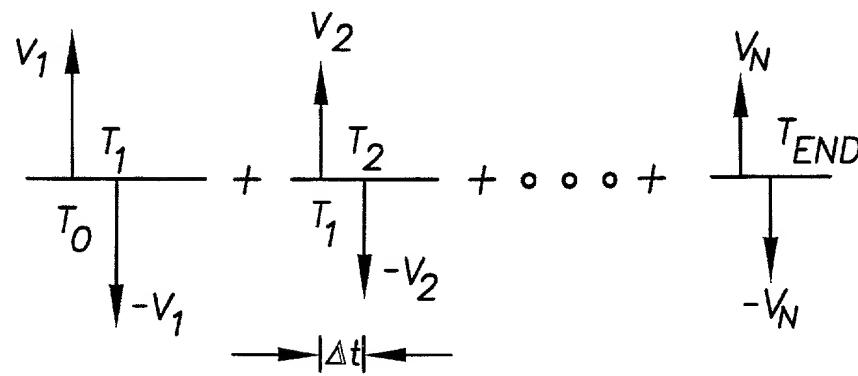


FIG.27

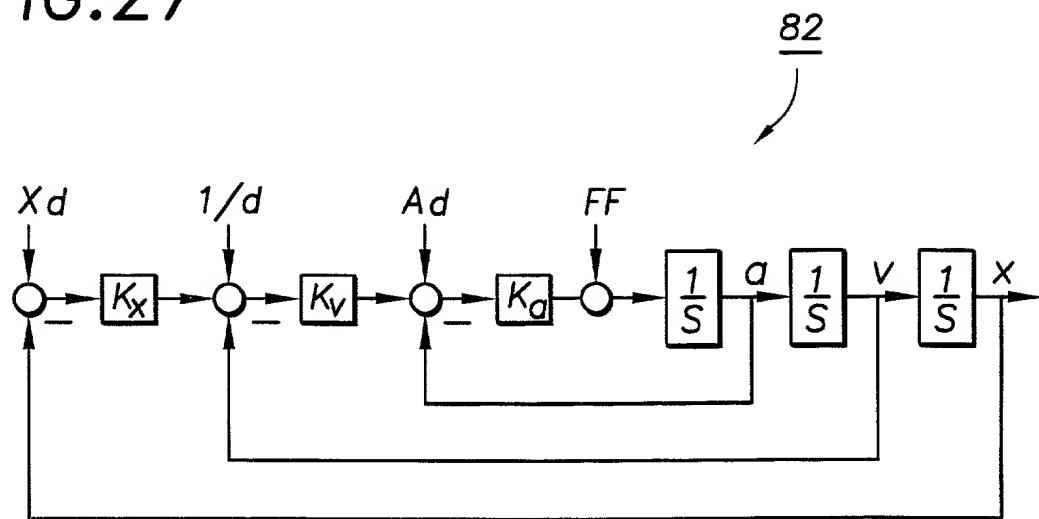
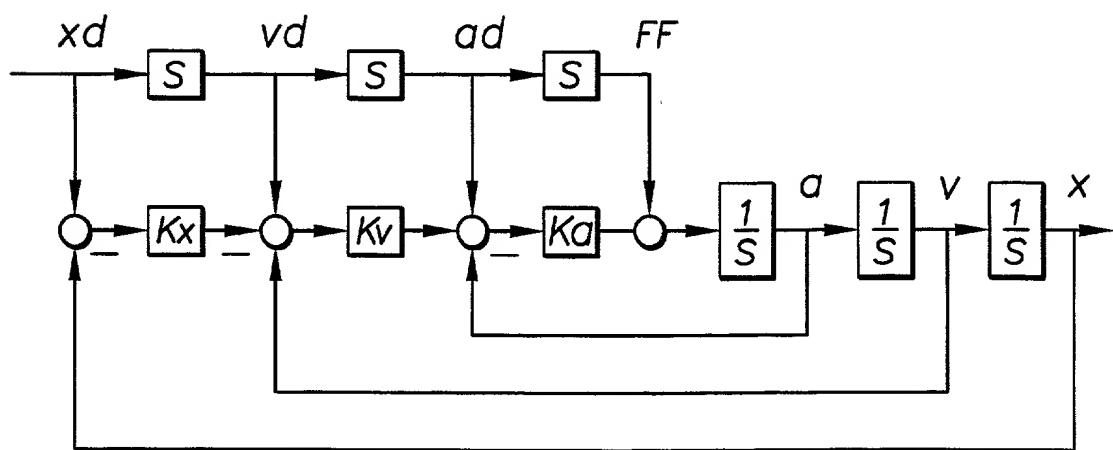
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FIG.28



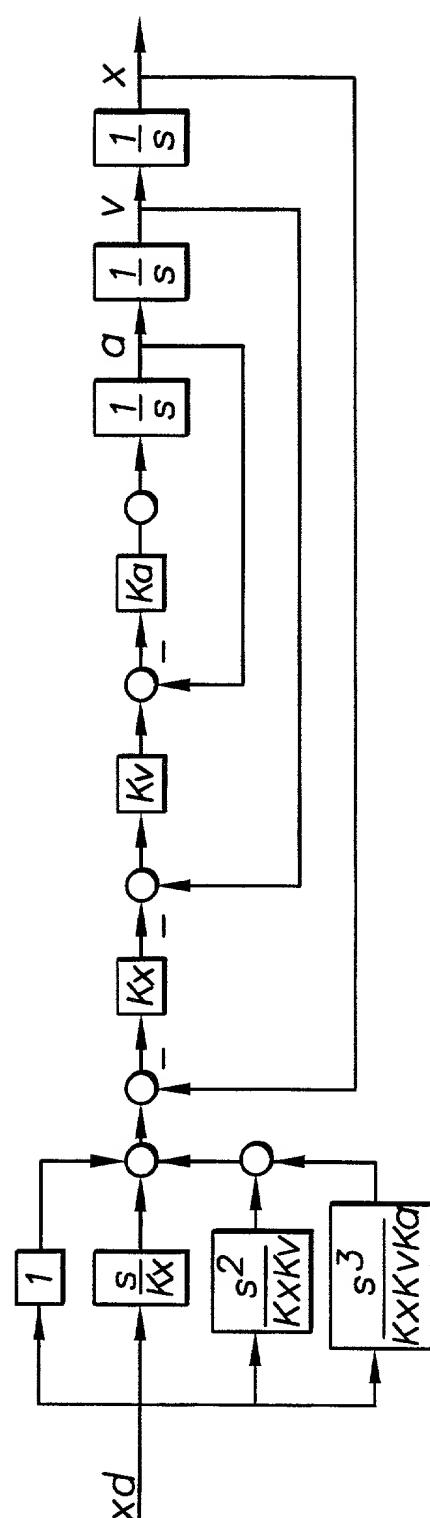


FIG. 29

FIG. 30

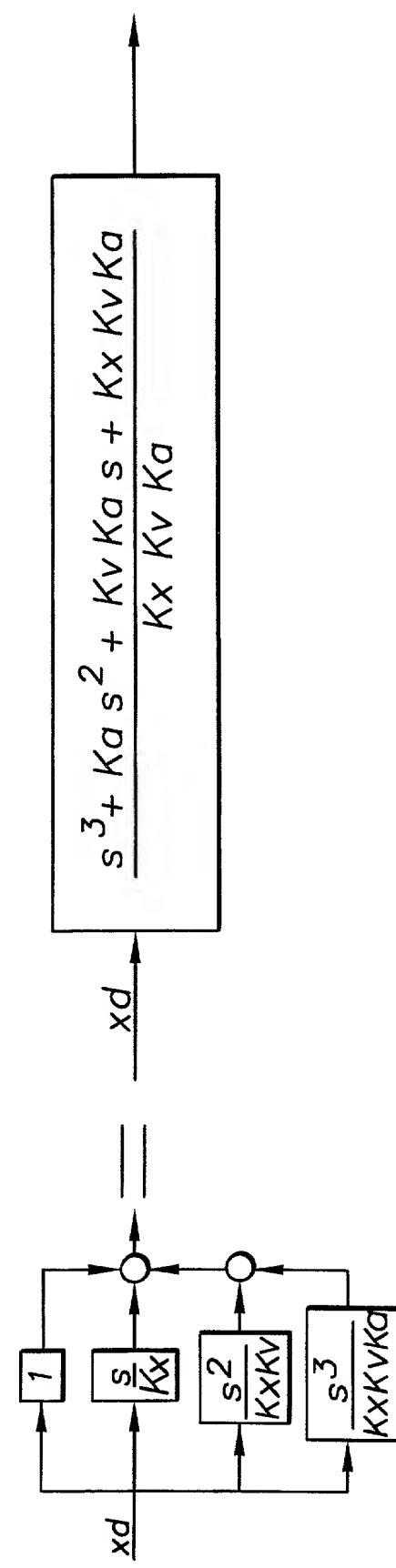


FIG. 31

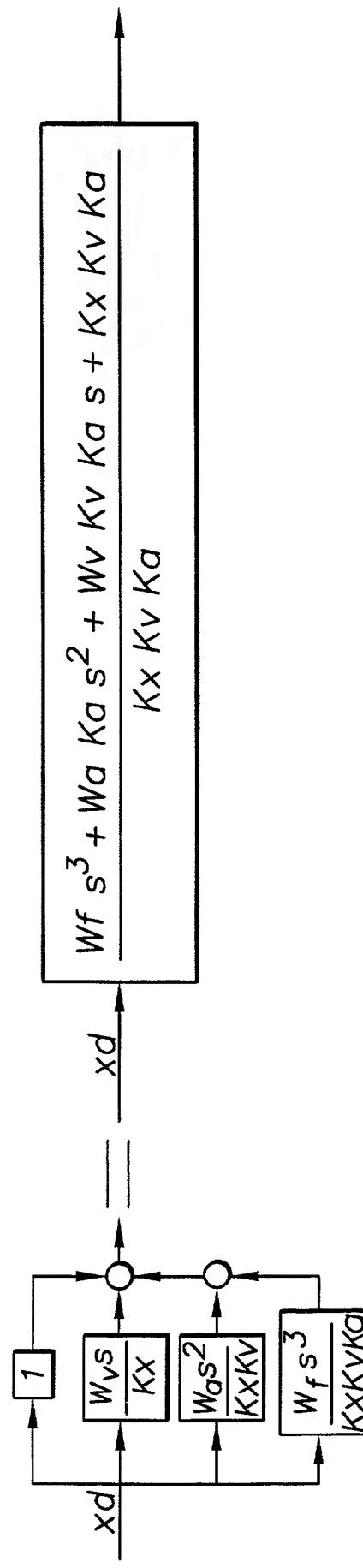


FIG. 32

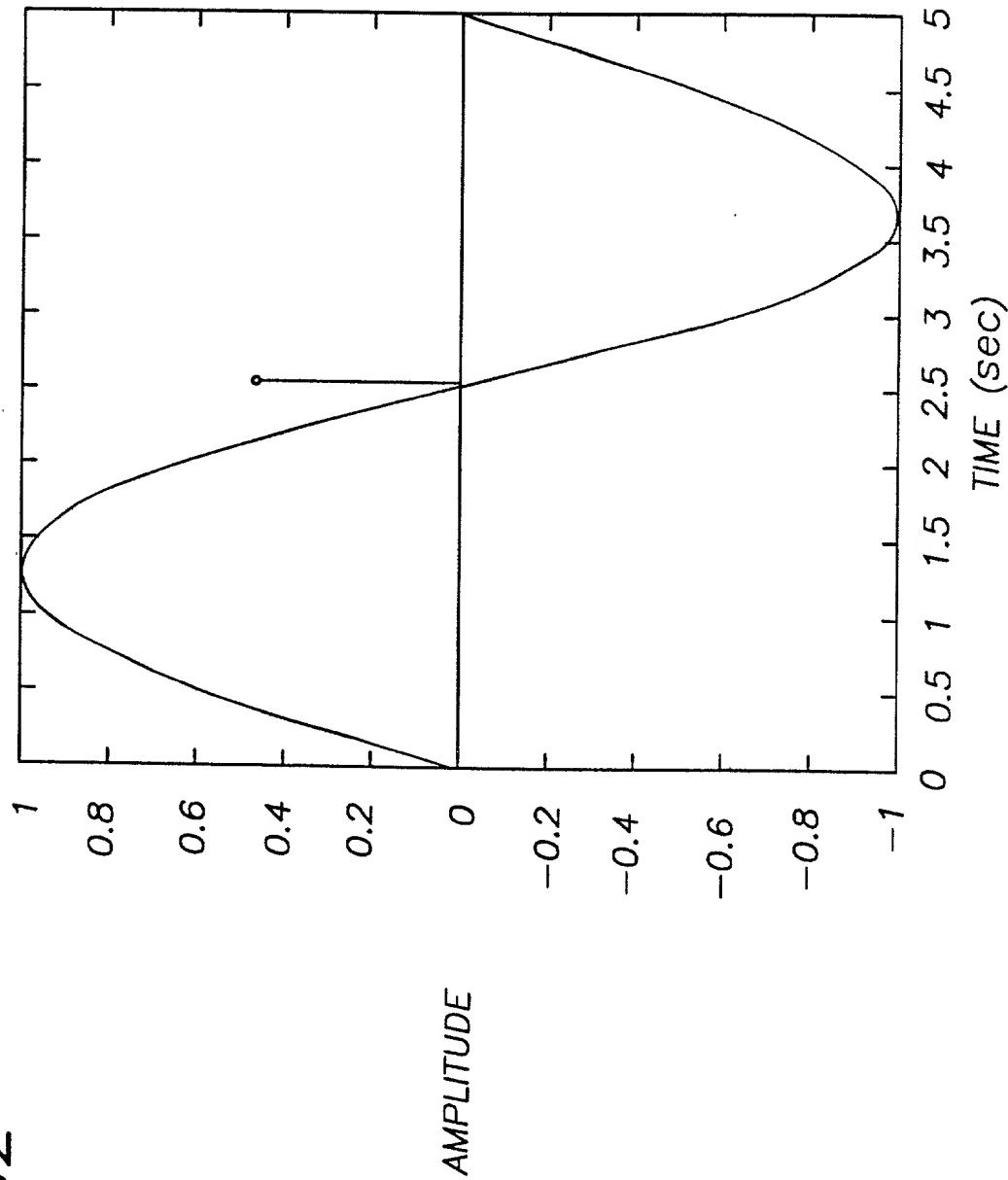


FIG.33

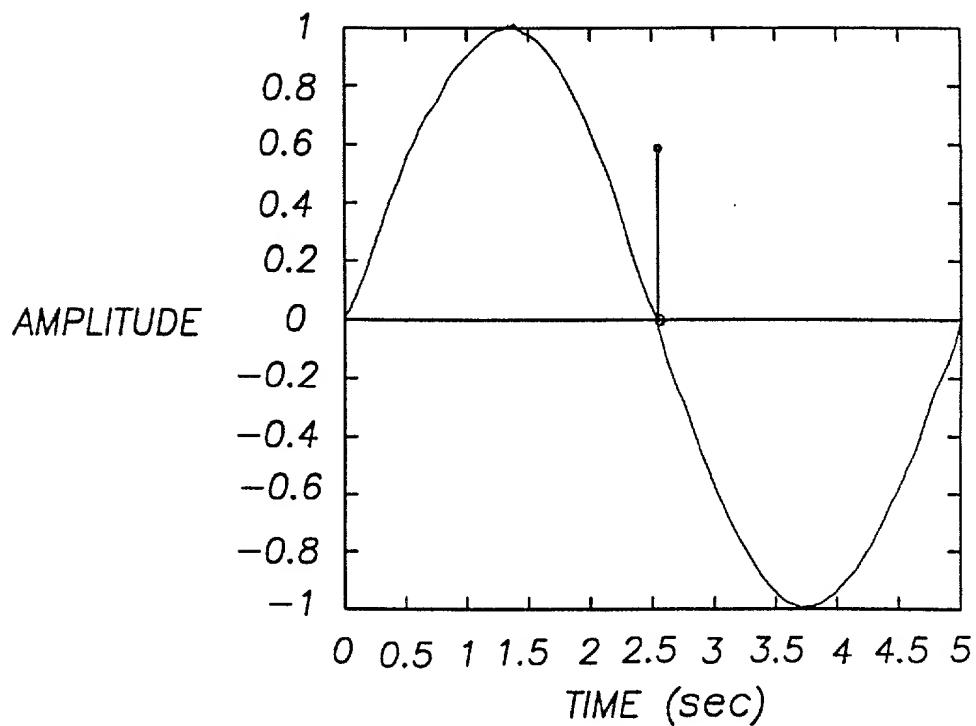


FIG.34

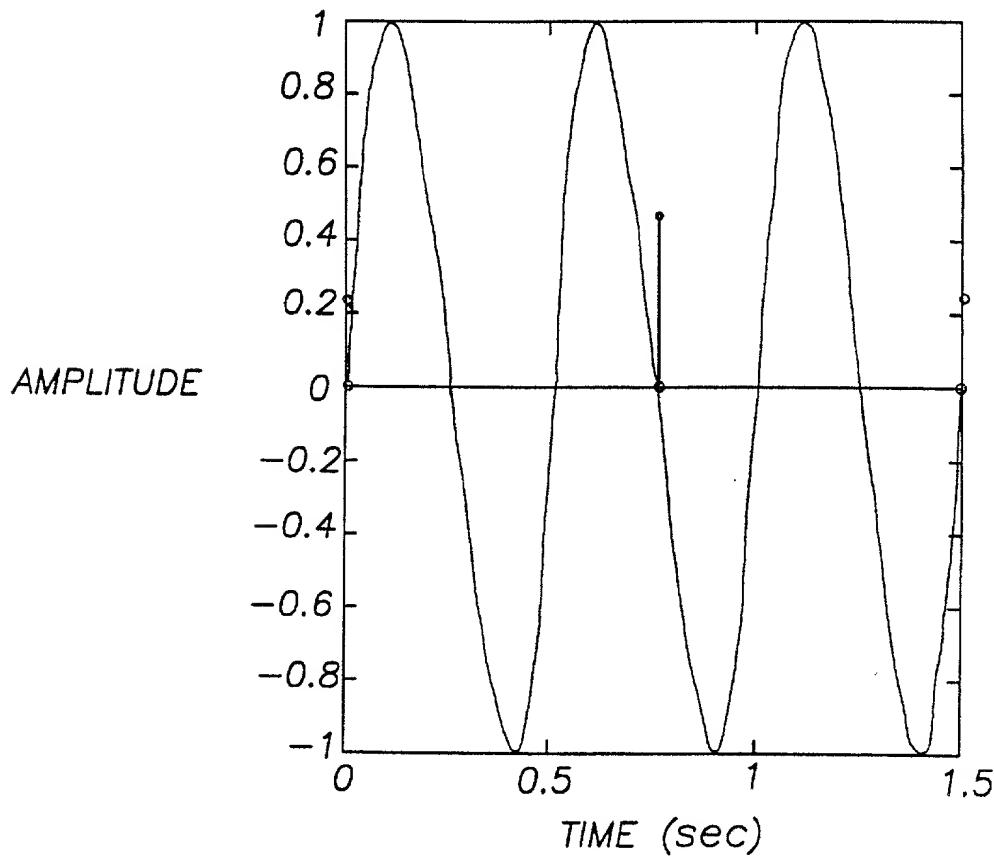


FIG.35

